

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE

Date: July 31, 1995

Identification Number: NJD002005106

Site Name: Universal Oil Products (Chemical Division

Region: 2

This notice is included in the Hazard Ranking System package located within each Regional docket and the Headquarters docket to clarify what the National Priorities Site, Universal Oil Products (Chemical Division, represents. This has been added to ensure that the listing is consistent with policy.

When a site is listed, it is necessary to identify or define the release (or releases) encompassed within the listing. The approach generally used is to delineate a geographical area (usually the area within the installation or plant boundaries) and define the site by reference to that area. As a legal matter, the site is not coextensive with that area, and the boundaries of the installation or plant are not the "boundaries" of the site. Rather, the site consists of all contaminated areas within the area used to define the site, and any other location to which contamination from that area has come to be located.

While geographic terms are often used to designate the site (e.g., the "Jones Co. plant site") in terms of the property owned by the particular party, the site properly understood is not limited to that property (e.g., it may extend beyond the property due to contaminant migration), and conversely may not occupy the full extent of the property (e.g., where there are uncontaminated parts of the identified property, they may not be, strictly speaking, part of the "site"). The "site" is thus neither equal to nor confined by the boundaries of any specific property that may give the site its name, and the name itself should not be read to imply that this site is coextensive with the entire area within the property boundary of the facility or plant. The precise nature and extent of the site are typically not known at the time of listing.

#### **National Priorities List Site**

Hazardous waste site listed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA)("Superfund")

# UNIVERSAL OIL PRODUCTS (CHEMICAL DIVISION) East Rutherford, New Jersey

Conditions at listing (December 1982): Universal Oil Products (Chemical Division) once manufactured specialty chemicals on an 85-acre site in East Rutherford, Bergen County, New Jersey. The company razed the plant in 1980. Waste solvents and solid chemical wastes were dumped into two unlined lagoons, which were later filled in. Surface water, ground water, and a large quantity of soils are contaminated. Ground water provides process cooling water to industry and drinking water to residents of Wallington Township.

The site is in the coastal wetland management area of the Hackensack River Basin. It is bordered on the southeast by Berry's Creek; one of its tributaries, Ackerman's Creek, passes through the site. Berry's Creek joins the Hackensack River about 3.5 miles downstream. Surface waters are used for recreation.

Status (July 1983): An Administrative Order and Directive Letter to conduct a remedial investigation was issued to the site owners.

# FIT QUALITY ASSURANCE TEAM

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

FACILITY NAME: UOP - Universal Oil Products - Chem Ui.
LOCATION: Rt 17 F. Rutherfied, NJ (Beyon Ch)
DATE SCORED: Rescared / Corrected April 5, 1983
PERSON SCORING: Paul H. Friedman
PRIMARY SOURCE(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.):  1. Documentation landage from Original Scoring  2. S. H. Inspection Report  3. Dem support to Mr. Romald H. Demana  4. Assessment of Mydriseslessic Connection Reduces 11318 track Ruthiful 15
Som hope to Mr. Anald H- Welland  Y. Assessment of Mydrigeologic Connection: Behaven U. o. P. wash Rutheful No  FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION: Property and the Bromewich  Forwater by Geragineus  Inc William H.  COMMENTS OR QUALIFICATIONS:
COMMENTS OR QUALIFICATIONS:
Fulininary Hydrogeological Truestogature Former VOP ?
chanced Div. Mont 5:4 har Ruthuful, NJ by; Grand factor tech., Inc william H. m. Tiquet July 6,1987
al referrer antound therein

#### GROUND WATER ROUTE

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7	OBSERVED	
1	しゅったなりたい	ころさし こうこうこ

Contaminants detected (5 maximum):
Compounds debected in shallow well - Not in
Apriles of concern - Chloriforn, pensen , 7, huenz, many

Rationale for attributing the contaminants to the facility:

Results of Ford bring & water analysis
- See Bear Report
- Inspection Amend

2 ROUTE CHARACTERISTICS

# Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

A Brownich Formation - till directly about rock

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

90 At. = 1

Depth from the ground surface to the lowest point of waste disposal/storage:

# Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

44" Auter would

Mean annual lake or seasonal evaporation (list months for seasonal):

32" - We tre homen

Net precipitation (subtract the above figures):

12" = 2

# Permeability of Unsaturated Zone

Soil type in unsaturated zone:

roused sitt and clay (onmal deposition of

Permeability associated with soil type:

Z

#### Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

5 pills of solvets / 3

#### 3 CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

Fogues 5 pillages

Method with highest score:

Spillage = 3

#### 4 WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated:

Charpen 3

Buzza 5

Pluen -

Compound with highest score:

Chloroform

#### Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

M. Job Comment: Page 5. .017. I the total west are constituted to so - 2500 BBL. raughe, total wants in speed of 10,000 drows

Basis of estimating and/or computing waste quantity:

- wantest, of chipint of wests, of site after observation;

varif legrous - 1974 were 160,000 jul h 1879,

Discharge at lengther 2870 of that peaks rate at the

site would being the total bribarys of worts outs

site would being the total bribarys of worts outs

site in execus of 10000 draws. - 8

#### 5 TARGETS

#### Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Driving with / Industrial - 6.56 at dyllt of well a away of multiple of hali

No intermine stratu capable of capacit suggests that the Brunswich

Sumultan' is at this (and, the atternation supply are reached)

orialable from Hochersah water supply = 2

# Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

heated at Park due ( Ref. HRS Pocountalin)

Distance to above well or building:

400 meter som vor = \$ = 1968 ft.

# Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Gorfield wells - 11,500) Although hisomores are discussed hadi wells - 25000) in Admend reports - Nove are explicitly went field as interesting side

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

Total population served by ground water within a 3-mile radius:

91,000 [ Afril Prot) = \$5

# HES COVER SHEET

# I singia .

<sub>■</sub> od <sub>s</sub>	
₽ 34S	
( O = 8 19.01 = ws 88.8 P = wg ) Ed.42 = Ms : serios	
and local levels,	
Numerous onforcement actions taken at state	
surface water contamination proven by analyses.	
variety of hazardous substances, Groundwater and	
Specialty chemical operation manufacturing wide	
Facility closed + site razed by company in 1980.	
(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)	
General Description of the Facility:	
Name of Reviewer: Richard Katz Date: 8/4/82	
Hemando Hreenal (DER)	
Person(s) in Charge of the Facility: Anthony Farro (DEP)	
EPA Region:	
Location: Lt.17 E. Rutherford, Bergen Co. NJ	
Pacility Name: Universal Dil Froducts-Chemical Division	
12/4/2	

GROUND WATER ROUTE WORK SHEET												
	Rating Factor		Assigned Value Multi- (Circle One) plier					Score	Max. Score	Ref. (Section)		
0	Observed Release		0				45)	•	1	45	45	3.1
	If observed release	-							•			
2	Route Characteristi Depth to Aquifer of Concern		0	1	2	3		4	?		6	3.2
	Net Precipitation Permeability of the Unsaturated Zone		0	1	2	3	•	1			3	
	Physical State	<del></del>	O Total Rou	1 ite (		3 racte	ristics Score	1 A	_		15	
3	Containment					~~~		1		· · · · · · · · · · · · · · · · · · ·	3	3.3
4	Waste Characteristi Toxicity/Persistenc Hazardous Waste Quantity		0	3 1	6 2	9 12 3 4	15 (18) 5 6 7	<b>B</b> 1		18 8	18 8	3.4
		•	Total Was	te (	Chai	racter	ristics Score	9		26	26	
	Targets Ground Water Use Distance to Nearest Well/Population Served	· t	0 0 12 24	1 ( 4 16 : 30 :	2) 6 18 32 32	3 8 10 9 5 40	<b>&gt;</b>	3		40	9 40	3.5
எ						ets S	core	•	Ţ	46	49	•
	6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5  ### ### ### ### ### ### ##########											
7 Divide line 6 by 57,330 and multiply by 100 Sgw = 93.88												

	· SURFACE WATER ROUTE WORK SHEET										
	Rating Factor			8Si	gne	d Valu	16	Muli	i- Score	Max. Score	Ref. (Section)
	Observed Release	)	0			(	45)	1	45	45	4.1
	If observed releas	•									
2	Route Characteris Facility Slope and Terrain		0	1	2	3		1		3	4.2
	1-yr. 24-hr. Rainfai Distance to Neare Water		0	1	2	3 3		1 2		3 6	
	Physical State	·	0	1	2	3		1		3	,
		To	tai Rou	te (	Cha	racter	istics Score	₽		15	
3	Containment		0	1	2	3		1,		3	4.3
4	Waste Characteris Toxicity/Persisten Hazardous Waste Quantity		0	3	6 2	9 12 3 4	15(18) 5 6 7 (	<b>8</b> 1	18	18 8	4.4
		Tot	al Was	te (	Cha	racter	stics Score	•	26	26	
	Targets Surface Water Use Distance to a Sens Environment Population Served to Water Intake Downstream	sitive	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	1 4 16 30 3	2 2 ( 6 18 32	8 10	•	3 2	000	9 6 40	4.5
			Tot	al 7	arg	ets Sc	ore	•	6	55	
_	6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5 7,020 64,350										
7	Divide line 6 by 64.350 and multiply by 100 S <sub>sw</sub> = 10.91										

***************************************	AIR ROUTE WORK SHEET							
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)		
0	Observed Release	<b>(0)</b> 45	1	0	45	5.1		
	Date and Location:							
•	Sampling Protocol:							
		e S = 0. Enter on line 5 . hen proceed to line 2 .						
2	Waste Characterist Reactivity and Incompatibility	0 1 2 3	1		3	5.2		
	Toxicity Hazardous Waste Quantity	0 1 2 3 0 1 2 3 4 5 6 7 8	3 1		9 8			
				•				
Ţ		Total Waste Characteristics Score			20			
3	Targets Population Within 4-Mile Radius Distance to Sensiti	) 0 9 12 15 18 1 21 24 27 30 1ve 0 1 2 3	1 2		30 6	5.3		
	Environment Land Use	0 1 2 3	1		3			
		•			·			
	:	Total Targets Score			39			
4	Multiply 1 × 2	3 × 3			35,100			
5	5 Divide line 4 by 35,100 and multiply by 100 Sa = 0							

**^ 1** 

s	8 <sup>2</sup> 284427
93.88	8813,45
10.91	119.03
0	0
	8932.48
	94,51
	s <sub>M</sub> = 54,63
	93.88

WORKSHEET FOR COMPUTING  $s_{M}$ 

. FIRE AND EXPLOSION WORK SHEET													
	Rating Factor	,	Assigned Value					Score	Max. Score	Ref. (Section)			
1	Containment	1					3			1		3	7.1
2	Waste Characteristics Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity		1 1	2	3 3		5	6	7 8	1 1 1 1		3 3 3 3 8	7.2
#		Total Wa	ste	Chi	arac	ter	istic	s Sco	ore .			20	·
3	Targets Distance to Nearest Population	0	1	2	3	4	5	···		1		5	7.3
	Distance to Nearest Building	0	1	2	3					1		3	
	Distance to Sensitive Environment	0	1	2	3		,			1		3	
	Land Use Population Within 2-Mile Radius	0	1	2	3	4	5			1	•	3 - 5	
	Buildings Within 2-Mile Radius	0	1	2	3	4	5			1		5	
	•												·
		Tot	al T	arg	ets	Sc	ore					24	·
4,	Multiply 1 x 2 x 3								,			1,440	
5 Divide line 5 by 1,440 and multiply by 100 SFE -													

	DIRECT CONTACT WORK SHEET							
	Rating Factor	Assigne (Circle	d Value o One)	Multi- plier	Score Max. Score	Ref. (Section)		
1	Observed Incident	0	45	1	45	8.1		
	If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2							
2	Accessibility	0 1 2	3	1	3	8.2		
[3]	Containment	0 15		1	15	8.3		
4	Waste Characteristics Toxicity	0 1 2	3	5	15	8.4		
<b>5</b>	Targets Population Within a 1-Mile Radius Distance to a Critical Habitat		3 4 5	4	20 12	8.5		

•

. Total Targets Score	32
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5	21,600
Divide line 6 by 21,600 and multiply by 100 SDC -	

#### DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

LOCATION: ROUTE 17, EAST RUTHERFORD BERGEN CO.

Universal Oil Products Corporation Chemical Division bocated at State High way 17 in East Rutherford had operated at the site from the early 1950's to 1980. Upp operated this site for the purpose of manufacturing industrial organic chemicals. Two waste lagours were located in the eastern part of the property. Ill the residues from its manufacturing operation, waste solvents and solid waste were dumped into this lagoun for 2 deader. The company had very sloppy home keeping when it was in operation. Spillages of pH ranging from <1.0 to 3.0 was noted at the plant during inspection.

#### GROUND WATER ROUTE

#### 1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Chloroform, Benzene, Acrolein, Toluene

Mercury

Rationale for amtributing the contaminants to the facility:

Results of soil boring and water sampling analyses.

[Source: July 2,1979 Rampling results & inspection, DWR.

June 25, 1980 Bampling reports from Bets - Convense
Murdoch, lnc. copies of data appended.

April 9, 1980 Sampling by NJDEP.

Files are available in Reg. 1-Enforcement, DWR, NUTDEP in Newerk. 2 ROUTE CHARACTERISTICS

# Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

NA

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

NA

Depth from the ground surface to the lowest point of waste disposal/ storage:

N/A

			•		•
Net	Dr.	201	n)	t at	מס ני
MEr	E P .		~		

Mean annual or seasonal precipitation (list months for seasonal):

NA

Mean annual lake or seasonal evaporation (list months for seasonal):

NA

Net precipitation (subtract the above figures):

NA

# Permeability of Unsaturated Zone

Soil type in unsaturated zone:

NA

Permeability associated with soil type:

NA

# Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

NA

#### 3 CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

NA

Method with highest score:

NA

# (4) WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated:

Acrolein, Chloroform, mercury

Compound with highest score:

Chloroform

# Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

estimate = 4,505,320 gallons ~ 81,900 drums

Basis of estimating and/or computing waste quantity:

Upper was known to dump their vastes (chemical) into on site lagoons for 20 years. NO DEP hazardous waste manifest Perfing records indicat that upper manifested 160,266 gals of Ester, alcohol, ketone, glycol residues. De mixed solvents, and O other or waster listed as just hazardous wastes to off site T,5,0 Facilities in 1979 when their lagoons were not used. Thirteen shipments were listed as haz waster with out quantities in this period. These shipments was the state of the second these shipments waster with out quantities in this period. These shipments was the second the second these shipments waster with out quantities in this period. These shipments was the second the

were estimated equal 65,000 gals at estimated 5,000 gals leach shipment. The total of off site disposed waste in 1979 was estimated to be his, 266 galo. These wastes are assumed to have been dumped into upp's layouns over a 20 year period thus making the total amount equalling 4,505,320 gals of waste/20 year.

#### Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Aquifers of concern are the glacial till and stratified drift.

Its uses are for drinking water supply and industrial use for process choling water.

FROM: "Hydro logical Investigation Former UOP Chemical Dilision

Plant Site East Rutherford" by Ground Water Technology

Distance to Nearest Well July 19, 1981. File located in Region I, Enforcement

DUR NOOF in Newark.

Location of nearest well drawing from <u>aquifer of concern</u> or occupied building not served by a public water supply:

600 noters from UOP. Located at Park Avenue.

Distance to above well or building:

wo meters from UDP.

# Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from <u>aquifer(s)</u> of concern within a 3-mile radius and populations served by each:

FIVE (5) Water Supply Wells located in Wallington, N.J.
Recently shut-down due to organic estatamination.
Population served - 11,400 persons.

source: Borough of Wallington Water Department.

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

NA'

Total population served by ground water within a 3-mile radius:

11,400 Receive from the Township of Wallington

[From: Wallington Waler Department]

#### SURFACE WATER ROUTE

#### 1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Benzene and Toluene (From July 2, 1979 Enspection by DWR)

Rationale for attributing the contaminants to the facility:

Wader sampling of Ackerman's Creek, upstream and

downstream of UDP! Benzene concentration upstream of the creek
is 520 pps white downstream it is 50,000 pps.

(Sampling results yie in Reg. I - Enforcement, DWR, NODEP

under UDP Files)

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#### 2 ROUTE CHARACTERISTICS

# Facility Slope and Intervening Terrain

Average slope of facility in percent:

Name/description of nearest downslope surface water:

Average slope of terrain between facility and above-cited surface water body in percent:

NA

Is the facility located either totally or partially in surface water? NA

Is the facility completely surrounded by areas of higher elevation?  $\mathcal{N}A$ 

1-Year 24-Hour Rainfall in Inches

NA

Distance to Nearest Downslope Surface Water

NA

Physical State of Waste

NA

3 CONTAINMENT

Containment '

Method(s) of waste or leachate containment evaluated:

NA

Method with highest score:

NA

4 WASTE CHARACTERISTICS

# Toxicity and Persistence

Compound(s) evaluated

Benzene, Toluene & Chloroform

Compound with highest score:

Chloroform

# Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

estimated 4.5 million gallons &

Basis of estimating and/or computing waste quantity:

see p.4

5 TARGETS

# Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

NONE.

Is there tidal influence?

# Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

UOP plant 45 1000 kd Within the Wetland (Hackensack

River Basin).

From: Carswell, L.D. Appraisal of Water Resources in the Hackmeack River Basin, N. T., U.S. Geological Survey Water - Resources Investigation, 74-76, 1976.

Distance to critical habitat of an endangered species or national

wildlife refuge, if I mile or less:

# Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

NONE.

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

NONE

Total population served:

NONE

Name/description of nearest of above water bodies:

Ackerman's Treek passes through the 400 plant. It is a tributary to Berry's Creek, 2000 ft. downstream from the site Berry's Creek joins tackensack River about 31/2 miles downstream

Distance to above-cited intakes, measured in stream miles.

NONE.

1	OBSERVED	RELEASE
Co	ntaminants	detected:
	No	Data.

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

\* \* \*

# 2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

#### Toxicity

Most toxic compound:

# Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

#### 3 TARGETS

# Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi

0 to 1 mi C to 1/2 mi 0 to 1/4 mi

# Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

Distance to critical habitat of an endangered species, if I mile or less:

#### Land Use

Distance to commercial/industrial area, if I mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if I mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

# DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: UOP-Universal Oil Products

LOCATION: Bte 17 E. Rutherford, New Jersey

#### GROUND WATER ROUTE

#### 1 OBSERVED RELEASE

Contaminants detected (5 maximum):

chloro form

Rationale for attributing the contaminants to the facility:

Sampling results from deep production wells

at the UOP facility. In July, 1981 by

NODEP & UOP. Samples analyzed by

Betz Converse Murdock (UOP) and Stabled Reutler

CDEP.

#### 2 ROUTE CHARACTERISTICS

# Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

Depth from the ground surface to the lowest point of waste disposal/ storage:

Net Preci	ipit	ati	on									
Mean anni	al	OT:	seasonal	precipi	tation	(list	months	for	seasonal):			
						•			,			
30 F	•		•						•			
			•			•			•			

Mean annual lake or seasonal evaporation (list months for seasonal):

Net precipitation (subtract the above figures):

# Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Permeability associated with soil type:

# Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

#### CONTAINMENT

# Containment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

## WASTE CHARACTERISTICS

# Toxicity and Persistence

Compound(s) evaluated:

chloroform 3,3 Tolvene 2 2

Compound with highest score:

ahloroform

# Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if

quantity is above maximum):

Based on UOPIs comments, pages; hazardars
material constitutes 10171 of total cuastes which
represents 1000 chrums. A linear extrapolation of
total waste volume would be many times in excess of 10,000 Score & drums Basis of estimating and/or computing waste quantity:

#### 5 TARGETS

# Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility: drinking water / industrial from Brunswick Formation

# Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

located at Park Avenue

Distance to above well or building:

600 meters from UOP = 1968 ft.

# Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Garfield - 11,500 Lodi -25,000

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

None

Total population served by ground water within a 3-mile radius:

36,500

#### SURFACE WATER ROUTE

Same as Original mitne

#### 1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Rationale for attributing the contaminants to the facility:

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#### 2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Name/description of nearest downslope surface water:

Average slope of terrain between facility and above-cited surface water body in percent:

Is the facility located either totally or partially in surface water?

Is the facility completely surround	ed by areas o	f higher elevation?
	·	•
1-Year 24-Hour Rainfall in Inches		
Distance to Nearest Downslope Surfa		
DISCANCE CO NEAREST DOWNSTOPE SUFTA	ce water	

#### Physical State of Waste

\* \* \*

#### 3 CONTAINMENT

# Containment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

# 4 WASTE CHARACTERISTICS Toxicity and Persistence

Compound(s) evaluated

Compound with highest score:

# Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Basis of estimating and/or computing waste quantity:

5. TARGETS

# Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Is there tidal influence?

# Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

Distance to critical habitat of an endangered species or national wildlife refuge, if I mile or less:

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# Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

Total population served:

Name/description of nearest of above water bodies:

Distance to above-cited intakes, measured in stream miles.

#### AIR ROUTE

OBSERVED RELEASE

Contaminants detected:

Date	and	locat	ion of	detection	n of	conta	minant	8				× .	•
					**								
									ng s				
Meth	ods 1	used to	o dete	ct the co	nt am	inants							•
Rati	onal	e for	attrib	uting the	con		ints to	cne s	11ce:				
											ï		
		CHARA		TICS patibilit	Z								
Most	rea	ctive	compou	nd:				•			·		· · · · · · · · · · · · · · · · · · ·
	•									•			
Most	inc	ompati	ble pa	ir of com	poun	ds:							

# Toxicity

Most toxic compound:

# Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

\* \* \*

#### 3 TARGETS

# Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

# Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

